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	. 	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
APPLICATION NO.	FILING DATE		22070007120	5972
09/840,762	04/23/2001	Valerie Vreeland	2307O087120	3712
	04.04/2002			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
TOWNSEND AND TOWNSEND AND CREW, LLP TWO EMBARCADERO CENTER EIGHTH FLOOR			EXAMINER	
			PATTERSON, CHARLES L JR	
SAN FRANCIS	SCO, CA 94111-3834		ART UNIT	PAPER NUMBER
		•	1652	7
	*		DATE MAILED: 06/24/200	2 /

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Appli ation No.	Applicant(s)			
)		09/840,762	VREELAND ET AL.			
	Office Action Summary	Examin r	Art Unit			
		Charles L. Patterson, Jr.	1652			
Period fo	Th MAILING DATE of this communication Reply	n appears on the cover sheet with the	correspondence address			
THE - Exte after - If the - If NC - Failu - Any	ORTENED STATUTORY PERIOD FOR F MAILING DATE OF THIS COMMUNICAT nsions of time may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communicate period for reply specified above is less than thirty (30) days period for reply is specified above, the maximum statutory are to reply within the set or extended period for reply will, by reply received by the Office later than three months after the ed patent term adjustment. See 37 CFR 1.704(b).	ION. FR 1.136(a). In no event, however, may a reply be toon. The areply within the statutory minimum of thirty (30) deperiod will apply and will expire SIX (6) MONTHS from statute, cause the application to become ABANDON	timely filed ays will be considered timely. m the mailing date of this communication. IED (35 U.S.C. § 133).			
1)	Responsive to communication(s) filed or	n <u>23 April 2001 and 07 May 2002</u> .				
2a) <u></u> □	This action is FINAL . 2b)	This action is non-final.				
3)□ Disposit	Since this application is in condition for colosed in accordance with the practice usion of Claims	allowance except for formal matters, pender <i>Ex parte Quayle</i> , 1935 C.D. 11,	prosecution as to the ments is 453 O.G. 213.			
· .	Claim(s) 16-30 is/are pending in the app	lication.				
· /—	4a) Of the above claim(s) is/are wi					
5)	Claim(s) is/are allowed.					
6)⊠	Claim(s) 16-30 is/are rejected.					
7)	Claim(s) is/are objected to.					
8)□	Claim(s) are subject to restriction	and/or election requirement				
Applicat	ion Papers					
9)	The specification is objected to by the Exa	aminer.	•			
10)	The drawing(s) filed on is/are: a)□	accepted or b) objected to by the Ex	aminer.			
	Applicant may not request that any objection	•	•			
11)	The proposed drawing correction filed on	is: a)□ approved b)□ disapp	roved by the Examiner.			
If approved, corrected drawings are required in reply to this Office action.						
12)	The oath or declaration is objected to by t	he Examiner.	•			
Priority (ınder 35 U.S.C. §§ 119 and 120		•			
13)	Acknowledgment is made of a claim for f	oreign priority under 35 U.S.C. § 119	(a)-(d) or (f).			
a)	☐ All b)☐ Some * c)☐ None of:					
	1. Certified copies of the priority docu	ments have been received.				
		ments have been received in Applica	ition No.			
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
14) 🗌 A	Acknowledgment is made of a claim for do	mestic priority under 35 U.S.C. § 119	(e) (to a provisional application).			
)	• •				
Attachmen	•					
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-94 mation Disclosure Statement(s) (PTO-1449) Paper N	18) 5) Notice of Informa	ary (PTO-413) Paper No(s) I Patent Application (PTO-152)			

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The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 22-27 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention and in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. This is a combination written description and enablement rejection.

The instant specification does not teach that applicants have immobilized the polypeptide nor put an enterokinase cleavable linker, epitope tag or thioredoxin sequence onto the enzyme and still obtained an active enzyme. One of ordinary skill would not have reasonably conveyed to him that applicant had possession of the instant invention at the time of filing. Without any guidance as to where to put these items and/or where or how to immobilize the enzyme, one of ordinary skill would have no guidance as to how to accomplish this and still insure that activity remained.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 16-30 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Soedjak, et al. (C10) or Vreeland, et al. (C12). Soedjak, et al. Teaches a vanadium bromoperoxidase and Vreeland, et al. teach a haloperoxidase that appear the be the enzyme of the instant claim, or if not then it would have been obvious to obtain them using these teachings. Both are derived from Fucus, as is the enzyme taught in the instant specification. The three different molecular weights in claims 19-21 appear to be cleavage products of each other with varying activities, but the enzyme itself appears to be the one taught by the instant references. The name of the enzyme and the two references teach the requirements of claims 28-30. All the other requirements of the instant claims would have been obvious and well known to one of ordinary skill in the art using well known methods, absent convincing proof to the contrary. Cloning and/or sequencing an enzyme does not of itself affect patentability of the enzyme, per se.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charles L. Patterson, Jr., PhD, whose telephone number is 703-308-1834. The examiner can normally be reached on Monday - Friday, 7:30-4:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ponnathapura Achutamurthy can be reached on 703-308-3804. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-4242 for regular communications and 703-308-0294 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0196.

Charles L. Patterson, Jr Primary Examiner Art Unit 1652

Patterson
June 21, 2002